

# USER MANUAL

## High Resolution Regular Camera Series



The product image may differ from the actual product.  
Please read the instructions thoroughly before using the product.



### CAUTION

### RISK OF ELECTRIC SHOCK



#### CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



#### ROHS Announcement

All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.



#### CE Mark

This apparatus is manufactured to comply with the radio interference.

The company does not warrant that this manual will be uninterrupted or error-free. We reserve the right to revise or remove any content in this manual at any time.

## OVERVIEW

This HIGH RESOLUTION surveillance camera series is designed to suit versatile security demand. With the HIGH QUALITY PERFORMANCE and COMPETITIVE PRICE, it makes your security demand affordable.

## FEATURES

1. 1/3" HR Color CCD
2. High resolution of 520 TVL
3. Low light sensitivity of 0.1 Lux at F2.0
4. Built-in microphone

## SPECIFICATIONS\*

MODEL	<i>Regular Camera</i>
Pick up Element	1/3" HR color CCD image sensor
Number of Pixel	771(H) x 492(V) <NTSC> / 753(H) x 582(V) <PAL>
Resolution	520 TV Lines
Min. Illumination	0.1 Lux / F2.0
S/N Ratio	More than 48dB
Electronic Shutter	1/60 (1/50) to 1/100,000 sec.
Lens Mount	CS Mount
IRIS Mode	AES / VD / DD
BLC	ON / OFF
Gain Control	AGC / MAX
Flickerless	ON / OFF
Video Output	1.0 Vp-p composite, 75Ω
Microphone	Built-in
Power Source (±10%)	DC12V
Current Consumption (±10%)	80mA
Dimensions (mm)**	117(L) x 60(W) x 50(H)

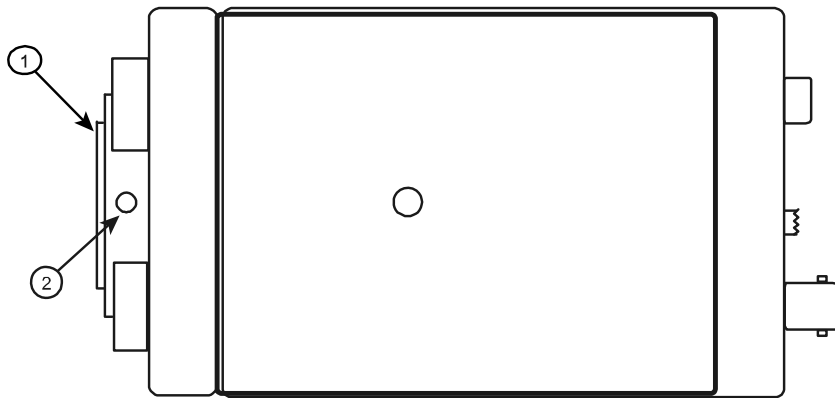
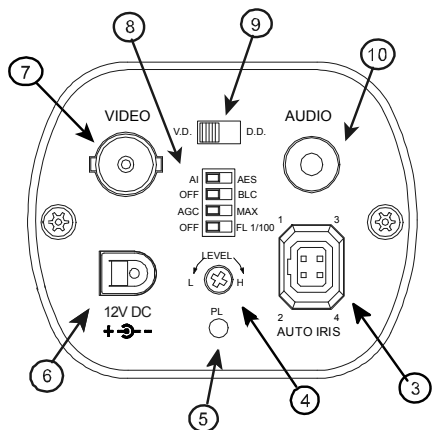
\* The specifications are subject to change without notice.

\*\* Dimensional Tolerance: ± 5mm

## PACKAGE CONTENT

- Camera x 1
- User manual x 1
- Wrench x 1

## MAJOR OPERATING CONTROL AND FUNCTIONS



### DC12V

#### 1. Flange Back Adjusting Ring

It is suitable for CS-mount lens. When using C-mount lens, please use the **CS-C conversion ring\***.

#### 2. Back Focal Lock Hexagonal Bolt

The camera is set at the standard back focal position. Fine-tuning is inevitable according to the lens types. Adjust the lens back-focus by turning the focusing knob.

#### 3. Auto Iris Lens Connector

Supplies power and controls signals to an Auto Iris Lens.

#### 4. DC Drive Level adjustment V.R.

When using Direct Drive Lens, you can adjust the DC Drive Level for the bright of video output.

#### 5. Power LED Indicator

The Power LED Indicator indicates normal status during operation.

#### 6. Power Input Terminal ⚠

- For connecting to DC12V regulated power supply.
- For connecting to the regulated AC230V power supply.
- For connecting to the regulated AC24V / DC12V power supply.

#### 7. Video Output Connector (VIDEO OUT)

For connecting to CCTV monitor video input with coaxial cable.

#### 8. Function Select

- AES (Automatic Electronic Shutter) / AI (Auto Iris Lens) selectable:  
AES – When using a manual iris lens or fixed iris lens, set this switch to AES.  
AI – When using an auto iris lens, set this switch to AI.
- BLC / OFF: Back light compensation function selection.
- AGC / MAX: AGC Normal / AGC Max selectable
- Flickless Mode: ON/OFF  
OFF/FL 1/100 (NTSC)  
FL 1/100 is Flicker less 1/100 (means shutter fixed at 1/100 second)  
OFF/FL 1/120 (PAL)  
FL 1/120 is Flicker less 1/120 (means shutter fixed at 1/120 second)

#### 9. V.D. / D.D. selectable

When using Auto Iris Lens, select Video Drive or Direct Drive depend on the type of lens you used.

#### 10. Audio Output Connector (AUDIO OUT)

Connect to the AUDIO IN connector of the recording device.

\* The CS-C conversion ring is not supplied in the sales package and needs to be purchased separately.

## INSTALLATION

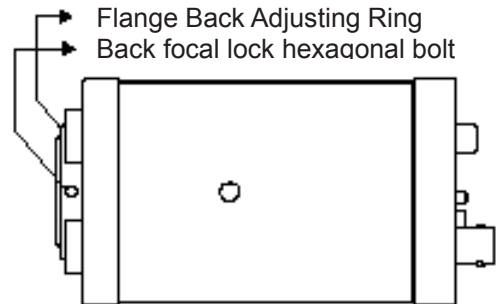
### NOTE:

It is recommended to have the following installation done by the qualified service personnel or system installer.

1. Mount a lens onto the camera (By turning it clockwise).  
It is suitable for CS-mount lens.  
But if the lens you chose is C-mount, please use the **CS-C conversion ring\*** to connect the C-mount lens and the camera.
2. Switch the lens selection depending on the lens you used.  
\* **Manual iris lens or fixed lens:**  
AES: When using manual iris lens or fixed iris lens, set switch to AES.  
\* **Auto iris lens:**  
AI: When using auto iris lens, set switch to AI.  
V.D. / D.D.: When using Auto Iris Lens, select VD or DD depend on the type of lens you used.
3. Connect the camera VIDEO output and the monitor video input with a 75Ω coaxial cable.
4. Connect the camera AUDIO output and the monitor audio input with a coaxial cable.
5. Connect the POWER terminal of the camera to a right power supply.
6. Adjust the focus or flange-back (Please refer to NOTE for adjustment instructions).

### NOTE: Focus or Flange-Back Ring Adjustment

1. Mount the lens  
by turning it clockwise on the lens mount of the camera.
2. Loosen the screws on the flange-back adjusting ring.
3. Turn the flange-back adjusting ring to the desired position.
4. Tighten the screws on the flange-back adjusting ring.



## PRECAUTIONS

- ★ Do not install the camera in an environment where the humidity or temperature is high
- ★ Do not install the camera under the unstable lighting condition
- ★ Do not expose the camera to rain or moisture
- ★ Do not keep the camera face to strong light directly
- ★ Do not touch the front glass of the camera
- ★ Do not use other than specified power source
- ★ Do not disassemble the camera

\* The CS-C conversion ring is not supplied in the sales package and needs to be purchased separately.